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<212> DNA  
<213> Aspergillus nidulans  
  
<223> unsure at all n locations  
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 <212> DNA  
 <213> Aspergillus nidulans

<400> 38

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<210> 39  
 <211> 1405  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 39

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 <211> 335  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 40

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 aggaactcta cctatacagt cacaagacat tttctctata gcacacagta atcagaagcc 240  
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 cttaaaacaa ataattaaac cttgatgctt cactg 335

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 <211> 1209  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 41

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 <212> DNA  
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 <212> DNA  
 <213> Aspergillus nidulans  
 <400> 43

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<212> DNA  
<213> Aspergillus nidulans

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 <213> Aspergillus nidulans  
 <223> unsure at all n locations  
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 <212> DNA  
 <213> Aspergillus nidulans

<400> 48

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<210> 49  
 <211> 372  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 49

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<210> 50

<211> 394  
 <212> DNA  
 <213> Aspergillus nidulans  
  
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 <213> Aspergillus nidulans  
  
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 <400> 51  
  
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 <211> 334  
 <212> DNA  
 <213> Aspergillus nidulans  
  
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<210> 53  
 <211> 400  
 <212> DNA  
 <213> *Aspergillus nidulans*

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<210> 54  
 <211> 398  
 <212> DNA  
 <213> *Aspergillus nidulans*

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 catcagtgt<sub>1</sub>a ccggccagga aatgtactca gcgcggagaa gctaaggaat atgaggacga 180  
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<210> 55  
 <211> 756  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 55

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 gccgcaaadc aaagctgcaa tgcaaccatg taagccctat ctacaagcat tggccaggca 180  
 caggcacatt cttctagata gggagatcca atccatgtac tgcaggtggc atgccttaat 240  
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<210> 56  
 <211> 396  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 56

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 ccgccaggtc ataattcctg tcgtatataa tctatgcatt gactatcgcc tggacaatga 240  
 caaatctggt tatactgaat caagtgtgat gactttgagg attccacctt ttggaatctg 300  
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<210> 57  
 <211> 367  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 57

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<210> 58  
 <211> 535  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 58

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<210> 59  
 <211> 12020  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 59

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<400> 96

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 <213> Aspergillus nidulans

<400> 103

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<400> 104

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<213> Aspergillus nidulans

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<400> 114

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<210> 117  
 <211> 880  
 <212> DNA  
 <213> Aspergillus nidulans  
 <223> unsure at all n locations  
 <400> 117



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 gctgactgga cagggttgac agcagaaatc ctgataggat ctatgtccat ttgggtctata 180  
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 aaactttcca atatctggta gagattgggc cggagcccc gatggagcgt ggacacacac 360  
 aaaatatctg gccatgagtt tgtattggcc tcgtacaaga gcctttcaaa acgagcaagg 420  
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<210> 118  
 <211> 597  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 118

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 ggtacaggtc aggtggcact caggaatcat actttgtcgg ggcatactgt cctatggcac 180  
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 cagccggggg acaggtttgt ggtttgtggt ttggctcgct cgagacgaaa tggcttatgt 360  
 aatggccttt tgcccatgtg acgctcgagc gagcttgtgg aaaatttcgt ctcgagccag 420  
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<400> 123

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 ctgaaattaa aagctaatat aagcagtaat caagtctaag cagacagagg ctatatatgg 660  
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<210> 124

<211> 961

<212> DNA

<213> Aspergillus nidulans

<400> 124

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 aacctgaacc gcatcttctc ccatcacctc ctccatcttc cgcgacgagt tctccgagat 240  
 aattttaacc ccgcacaacc cctgcacaca ctacgccac cacaaccacc cataatgccg 300  
 aactcgggtc catccgcgga aaagaggaaa gaaggaggag ggaaaggagg agggaaaagga 360  
 aggtccaggg cgatagctca aatcgcttca ccgcttaagt cacggccttc aaagactcta 420  
 gcttactact tagatagctc gtggaggcaa agactttatg tttctttcca ctggctatgc 480  
 caatttcccg tccccgctat gctttcttca cacctcacat gccaatattt atcaacacga 540

cccttcacaca tcactactct catccgcttc ttacaataat ctatcatcta actcctatatt 600  
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 ttcccctctc tgttattact tattcctcct cccctctcat tccactatcc ccctattctt 900  
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<210> 125  
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 <212> DNA  
 <213> Aspergillus nidulans  
 <400> 125

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 gatctatttt caaggccgct agaggtagct aatgaagcct gtgaaatgat tgatcaacaa 180  
 acaactcaga gagcaaactg tggttaaggac ctgtctattc tatctttgaa taactagtta 240  
 ctaactagtc cttgtaaggt gttgaccatc cacaagggcc aggaaagatt aacaaattca 300  
 gatgcagtag aatattttact ttctttatac cattaaatat tgcagaatgc ccttatatag 360  
 tctttgtatc acatagtatt cattcacatc ctctcctcc tccaaataag cctccgcagc 420  
 ttatactaga tgagattttg gaccttattt gaaagatgca gagtcttgac ttgaccoccta 480  
 gtaagtacag ctagttcaca actagttgag catgtgctaa actagtttag gtttatttct 540  
 acagagtccg gcactgaaac agttttgcc aaaaataat ggccagactc tttcacaaat 600  
 ccataatagc tttgtaaact aagaccgatt tgcagctatt atagcaaagg aaaaggcttt 660  
 actatctcct aaaggccgtg gccttgagg tgtacactgc gagttggatc ggcatccaga 720  
 atatcaagta tataaactag ttcataacta gttctctgct aatcactatt aggaatatgt 780  
 tcgcagaatc tatacagacc atgatattgt catgattatt tgtggattta ataagcaa 840  
 ccagctcctt gaatcccttg gattcattga aggtgatatg gc 882

<210> 126  
 <211> 482  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 126

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 gcaaccaagg catgacgttt ggggtgacacg acgcgtctca cegtcttagg ttgttcacaa 180  
 ttctagtga gaacgagaaa aaaaaaaaaa aaaagtaaac gactttcaaa attttcgtag 240  
 gatagaatgg tcagtatggg tgagcacaaa gcatgaccca aaaaagaatt ccgatacggg 300  
 gaatcgaacc ccgagctgct gtgcacatgc aatgagagac agcgatgtta accattacac 360  
 catatcggat gttatatattt tattctcttc aaataaatgt atataactat aggaatggat 420  
 tcaatagaat ctcccagggtc agtgtactta ctccggaccc tcttaaatat gtcgccagag 480  
 tg 482

<210> 127  
 <211> 561  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 127

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 tcatggcgct tgagccaggg gttgccgagg ataaggtcat atcctagtag atatggtagg 180  
 acataaaggt atgacccttc ttactatga cctctaatat ccagtcgtgc tcgtacgata 240  
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 ggtatcttgt tctattgtac aaattcttga ctaatagctc tataagcaag acagcctgta 360  
 tctaccagtg tacaagccag cttgatatgg ttcacaatgg cctctagttt aaaagggttg 420  
 gagtgcattg aagagcgttt aaagtctttc catagtctta gttaagtagc tctacctggg 480  
 taccctgtc catgactttg tacaggggtt atttatcttc cgactcctct ggttcctctt 540  
 ccatgttggt aaccatttgt g 561



atacgaaaat gccactactc agtcgtgtac tggcgttgga ggttccatcc ccggtcggaa 600  
 ttatgtcacc ggtgatgact accttcgcaa ttctttcgga taggcacggc cacctntggc 660  
 gtactttcgg attcttttgg cttgggggct ctatttggtg ggtggcacta 710

<210> 130  
 <211> 1048  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 130

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 ggttcgataa ctgagttcat atacttcata ttcacaaag agttgaatgc ccgcttggtc 180  
 aagctggttt cgatgccttt cttcttatct ttaaggagtt tgctcttatt ttcacctca 240  
 aactgttgac aaaaacctat tagtctatgt ggaacaataa gttggtaggg gcgaaacata 300  
 cttcttgag ggcttgggcg aacgactcgg atgtgctacc gaggttacc ccaggatggt 360  
 aaagagcaag aaccggatcc atagcatcca gctttccagt cttgcgaacc ttcttcattg 420  
 catctttgtg ccagttcgcc accgcctctt tctccagatt attgtggtgt ttcttcaagt 480  
 ttacttgctc cattatggag acgtgggtcg acgcaaaaaa ttcgaagtcc tgcagatgga 540  
 cctgtttcgt gatatcaaga ccacctctc catacaggaa ctggacaata gacctatccg 600  
 aagattcacg tactgaggag tcgtactcgg ctgtaagcc ttccataccc ttgatcaagc 660  
 aacgctgcag gtaaccagat cggaagtct tgaccgcagt atcaatcaga ccctcacgac 720  
 cggccatggc gtgaaaatag tattcttggg gtttaatacc ggtcaagaat cgaccataga 780  
 catatccacc agccatcgga tttgtgtcaa aagccctaaa gcaaggaaga gtcttaccac 840  
 tgatcataac gggcacacgt cgaccttcca gaacttgctg acccagattg caagaaatca 900  
 aatttgcggt cactgcggaa ctttgggtc cggatggtg cattgactgc atctgattcc 960  
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 gcgccgacgt gcgtttgaac actatcgg 1048

<210> 131  
 <211> 1110



<212> DNA  
<213> Aspergillus nidulans

<400> 131

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caatatactg gtactgacac tggttaggct tacctgagat ggaagctgat gacagattac  180
ctttagttat tctacaactg ttgatattct acaacaacat gttggcatat tacacctctg  240
agaatattaa ctctcgtgaa aacacgccta tggatatgca actgtaccat agccaagtgt  300
acaaaatttt tgctgctgct gagatttata agtttcagca gacgctgctc tggcatgtta  360
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cagggacatg gcgcgtgcat gcagtgatat tagaaggcat ggagaggcac tggaacacca  540
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ttctcacatg tgctcacttc ggaccattat gacgatcgtg cacatgcttt agcagtcata  960
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<210> 132  
<211> 770  
<212> DNA  
<213> Aspergillus nidulans

<400> 132

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atgccaaagtc gccaaagtgat accctcgata gcttatcatc atcacagggt tgatgtttat 780  
 aaaattgctt gacagctgct ctgacagctg ccgccgacca ttatcgttcc tgctgactgg 840  
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 gcgataccgg cgaggatagg taactggcta cgtatagata tatcgtcacg tgttctcctt 1200  
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 tgcgatagga gttctagccc t 1281

<210> 134  
 <211> 857  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 134

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 attcctagag ggtctagtta atatattttt agaataact tagtatatta gctaatttaa 180  
 aaaaagtaac tagctattta aagagtatat attttatata aaaaatagtt atttattcct 240  
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 gttctaagag accttaggat cttttctact ttttttttat ataaacttaa ttttataatt 600  
 aatcttattt ttctaataa gtagtagttc tttagcttta tcttatttaa agagtcttag 660  
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 tactttttat atatttacta ataagactat aaatatctta atatcttggc tatagtatct 780

ttatTTTTat ataaatgttt ttataattat agctaattatt tatactatat ctagcttttag 840  
taagagcctt tttatag 857

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<211> 376  
<212> DNA  
<213> Aspergillus nidulans  
  
<400> 135

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gccaaaccgaa tctcta 376

<210> 136  
<211> 1417  
<212> DNA  
<213> Aspergillus nidulans  
  
<400> 136

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gaagtgcac atataatttc tcattctctt gcaacggtag aagagtcaga attggtaggt 540  
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<210> 138  
 <211> 1999  
 <212> DNA  
 <213> *Aspergillus nidulans*

<400> 138

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<213> *Aspergillus nidulans*

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<213> Aspergillus nidulans

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<400> 142

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<400> 150

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<400> 153

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 <213> Aspergillus nidulans

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 <213> Aspergillus nidulans

<400> 198

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<400>            202

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<212>	DNA

<213> Aspergillus nidulans

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<211> 655

<212> DNA

<213> Aspergillus nidulans

<400> 204

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<223> unsure at all n locations  
<400> 205

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<400> 242

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c						481

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 <400> 256

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<213> Aspergillus nidulans

<400> 257

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<210> 258

<211> 674

<212> DNA

<213> Aspergillus nidulans

<400> 258

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 <212> DNA  
 <213> Aspergillus nidulans  
 <400> 261

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 gagaatcagg aaatattatt attaccttga ctaatatagc ctatgtacca ggtctttata 240  
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 ggttgtggag taacacagca atgatgcata tacttttgca actatggata attaataatc 420  
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ttat 484

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 <212> DNA  
 <213> Aspergillus nidulans

<400> 262

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 <212> DNA  
 <213> Aspergillus nidulans

<400> 263

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 <212> DNA  
 <213> Aspergillus nidulans

<400> 264

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<210> 265  
 <211> 559  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 265

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<210> 266  
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<212> DNA  
<213> Aspergillus nidulans

<400> 266

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<210> 267  
<211> 700  
<212> DNA  
<213> Aspergillus nidulans

<400> 267

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<210> 268  
<211> 488  
<212> DNA  
<213> Aspergillus nidulans

<400> 268

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<210> 269  
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<212> DNA  
<213> Aspergillus nidulans

<400> 269

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<400> 271

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<400> 297

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<400> 299

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 <213> Aspergillus nidulans

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<213> Aspergillus nidulans  
<223> unsure at all n locations  
<400> 310

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<212> DNA  
<213> Aspergillus nidulans

<400> 311

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<213> Aspergillus nidulans

<400> 312

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 <212> DNA  
 <213> Aspergillus nidulans  
 <400> 314

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622

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 <213> Aspergillus nidulans  
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<210> 318

<211> 846  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 318

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 <213> Aspergillus nidulans

<400> 319

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 <213> Aspergillus nidulans  
 <400> 321

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<212> DNA  
<213> Aspergillus nidulans  
<400> 322

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<210> 323  
 <211> 592  
 <212> DNA  
 <213> Aspergillus nidulans

<400> 323

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<210> 324  
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 <213> Aspergillus nidulans

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<210> 325  
 <211> 2671  
 <212> DNA  
 <213> Aspergillus nidulans  
  
 <223> unsure at all n locations  
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<212> DNA

Figure 1. The effect of the number of iterations on the accuracy of the proposed algorithm. The accuracy of the proposed algorithm is plotted against the number of iterations. The accuracy increases rapidly in the first 10 iterations and then levels off. The accuracy is approximately 0.95 after 10 iterations and remains stable thereafter.

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<400> 335

419

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